

Notice of Allowability

Application No.

10/629,745

Examiner

Dang T. Nguyen

Applicant(s)

KANG, HEE BOK

Art Unit

2824

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to 20 June 2005.
2. ☒ The allowed claim(s) is/are 1-15.
3. ☒ The drawings filed on 30 July 2003 are accepted by the Examiner.
4. ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
 - a) ☒ All b) ☐ Some* c) ☐ None of the:
 1. ☒ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. _____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

* Certified copies not received: _____.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.
THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.

5. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
 6. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
 - (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
 - 1) ☐ hereto or 2) ☐ to Paper No./Mail Date _____.
 - (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date _____.
- Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
7. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Attachment(s)

1. ☒ Notice of References Cited (PTO-892)
2. ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
3. ☒ Information Disclosure Statements (PTO-1449 or PTO/SB/08),
Paper No./Mail Date 6/28/05
4. ☐ Examiner's Comment Regarding Requirement for Deposit
of Biological Material
5. ☐ Notice of Informal Patent Application (PTO-152)
6. ☐ Interview Summary (PTO-413),
Paper No./Mail Date _____.
7. ☐ Examiner's Amendment/Comment
8. ☒ Examiner's Statement of Reasons for Allowance
9. ☒ Other Search history.

ANH PHUNG
PRIMARY EXAMINER

Response to Amendment

1. This office action is in response to applicant's amendment received on 6/20/05. Claims 1 – 15 are pending on this application. Claims 1 and 15 are independent claims.

Allowable Subject Matter

2. Claims 1 - 15 are allowed.
3. The following is an examiner's statement of reasons for allowance:

With respect to claim 1, in addition to other elements in the respective claim, the prior art fails to teach or suggest "a second synchronous memory device configured to operate in a page mode; a first memory controller configured to control data transfer operation between the first memory device and the memory bus; a second memory controller configured to control data transfer operation between the second memory device and the memory bus; and a third memory controller configured to control data transfer operation between the third memory device and the memory bus".

With respect to claim 15, in addition to other elements in the respective claims, the prior art of record fails to teach or suggest "the plurality of memory devices are controlled by an external memory controller to exchange data with an external system bus, and when one of the plurality of memory devices exchanged data with the external system bus, the rest memory devices are allowed to exchange data via the memory bus".

4. The prior art made of record and considered pertinent to the applicant's disclosure does not teach or suggest the claimed limitations. Fukuoka and Gates, taken

individually or in combination, do not teach the claimed invention of the plurality of memory devices exchanges data with the external system bus, the rest memory devices are allowed to exchange data via the memory bus, in combination with other limitations.

5. Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Prior art

6. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

Fukuoka et al. Pub. No.: US 2004/0019762 A1 Pub. Date: Jan. 29, 2004

Gates et al. Patent No.: 5,959,914 Date of Patent: Sep. 28, 1999

Contact Information

7. Any inquiry concerning this communication from the examiner should be directed to Dang Nguyen, who can be reached by telephone at (571) 272-1955. Normal contact times are M-F, 8:00 AM - 4:30 PM.

Upon an unsuccessful attempt to contact the examiner, the examiner's supervisor, Richard Elms, may be reached at (571) 272-1869.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist, whose telephone number is (703)

305-3900. The faxed phone number for organization where this application or proceeding is assigned is (703) 872-9306.

Information regarding the Status of an application may be obtained from the patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free) or EBC@uspto.gov.

A handwritten signature in black ink, appearing to read 'Anh Phung', written in a cursive style.

**ANH PHUNG
PRIMARY EXAMINER**

Dang Nguyen 8/1/2005